

**IN THE CLAIMS:**

The following is a complete listing of claims in this application.

Claims 1-8 (canceled).

9. (new) A process for optimizing the extraction at room temperature of juice or puree from food pulps of fruit and vegetables, comprising the steps of:

- providing food pulps having a predetermined consistency;
- providing an input parameter relative to the consistency of the food pulps;

- providing a machine having:

- a softening section of said food pulps having at least a first stator and a first rotor, said first rotor arranged to rotate at a first speed driven by a first rotor drive means;

- an extraction section having at least a second stator and a second rotor, said second rotor arranged to rotate at a second speed driven by a second rotor drive means;

- a speed adjusting means operatively connected to said first rotor drive means and to said second rotor drive means, said speed adjusting means comprising a processor for receiving an input parameter;
  - entering said input parameter in said processor;
  - calculating by said processor a ratio between said first and second speed; and

- actuating the first and the second rotor drive means by said speed adjusting means according to said ratio.

10. (new) A machine for extracting at room temperature

juice or puree from food pulps of fruit and vegetables having a predetermined consistency comprising:

a softening section of said food pulps having at least a first stator and a first rotor, said first rotor arranged to rotate at a first speed;

an extraction section having at least a second stator and a second rotor, said second rotor arranged to rotate at a second speed;

a first rotor drive means for causing said first rotor to rotate at said first speed;

a second rotor drive means for causing said second rotor to rotate at said second speed; and

a speed adjusting means operatively connected to the first and the second rotor drive means, said speed adjusting means comprising a processor for receiving an input parameter relative to the consistency of the food pulps and for calculating a ratio between said first and second speed responsive to said input parameter, said speed adjusting means arranged to operate the first rotor drive means and the second rotor drive means according to said ratio.

11. (new) A machine according to claim 10, wherein said speed adjusting means comprises a manually operated means selected from the group consisting of frequency variators and mechanical gearboxes.

12. (new) A machine according to claim 10, wherein said first and second rotor drive means have axes shifted from each other.

13. (new) A machine according to claim 10, wherein said first and second rotor drive means are coaxial.

14. (new) A machine according to claim 10, wherein said first rotor drive means is mounted on a first shaft and said second rotor drive means is mounted on a second shaft, wherein said first and second shafts are coaxial and pivotally engaged within/on one another, and are arranged to rotate independently from each other and to bear workloads different with respect to each other.